American Integrated Services, Inc.

UNDERGROUND STORAGE TANK CLOSURE REPORT

BOEING REALTY – MCDONNELL DOUGLAS
19503 SOUTH NORMANDIE AVENUE
LOS ANGELES, CALIFORNIA

Prepared for

Boeing Realty – McDonnell Douglas
3760 Kilroy Airport Way, Suite 500
Long Beach, CA 90806

November 17, 2000

Prepared by

American Integrated Services, Inc.
2680 Seminole Avenue
Lynwood, California 90262

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1.0 INTRODUCTION

This report summarizes Underground Storage Tank (UST) closure activities completed at 19503 South Normandie Avenue in Los Angeles, California (subject site) (see Figure 1 in Appendix 1). Boeing Realty (Boeing) engaged the services of American Integrated Services, Inc. (AIS) for permitting and closing of one UST, under the oversight of the City of Los Angeles Fire Department (LAFD). This report was prepared to document UST closure activities.

The work completed consisted of the removal of one 5,000-gallon split UST, and the removal of associated piping and dispenser. The two-compartment UST contained gasoline. AIS personnel collected soil samples below the UST and dispenser to determine whether the fuel had impacted the surrounding subsurface soils. Soil sampling was not performed under the pipeline due to the short distance (about 10 feet) between the UST and the dispenser. The sampling was performed under the oversight of the LAFD. This report summarizes tank closure work and discusses the soil analytical results.

2.0 FIELD ACTIVITIES

2.1 PERMITTING

Prior to commencement of the work, AIS obtained a UST closure permit on behalf of Boeing Realty – McDonnell Douglas from the City of Los Angeles Fire Department for the removal one 5,000-gallon split UST containing gasoline, and associated dispenser (permit dated August 21, 2000). A copy of the closure permit is provided in Appendix 2.

2.2 TANK PREPARATION AND REMOVAL

In August 28, 2000, AIS broke out the concrete pavement around the UST and the associated dispenser island. The UST was located to the east of Building 20. The dispenser island was located to the north of the UST (refer to Figure 2). AIS removed the piping and dispenser. AIS excavated around the UST to prepare for cleaning and removal. The UST was pressure rinsed until satisfactory lower explosive limits (LEL) and total oxygen concentrations were achieved. The tank was certified as safe for removal by Harbor Testing. A copy of this Certification, dated August 29, 2000, is provided in Appendix 3. Approximately 60 gallons of the tank rinseate was recovered with a vacuum truck and transported to the DeMenno Kerdoon facility in Compton, California, for treatment and disposal. Copy of the disposal manifest is provided in Appendix 3.

On August 29, 2000, under the direction of the LAFD, AIS removed the UST from the excavation. The removed 5,000-gallon tank was transported to the State Iron and Metals yard in Santa Fe Springs, California for tank destruction. The tank's destruction certificate is included in Appendix 3.

2.3 SOIL SAMPLING OPERATIONS

Upon completion of the tank removal, AIS personnel collected soil samples from the tank excavation, and under the removed dispenser. The locations of the samples are shown on Figure 2. Sampling was performed under the direction of the LAFD inspector. Two soil samples were collected under the removed tank from approximately two feet beneath tank's invert. One sample was collected towards the northern end of the removed UST and the other sample towards the southern end. Similarly, one soil sample was collected under the removed dispenser, from approximately 2 feet below bottom of the removed dispenser. The soil samples were collected using the bucket of a backhoe.

The samples were collected in laboratory grade glass jars with Teflon™ lined plastic lids. Each sample was immediately labeled and placed in a cooler. The soil samples were

submitted to Del Mar Analytical, a California state certified laboratory, for testing. Laboratory results and chain-of-custody documents are included in Appendix 4.

2.4 SITE RESTORATION

Site restoration activities were performed in August 30 and September 1, 2000. The UST excavation was backfilled with pea gravel up to two feet below grade. Imported soil was then placed on the pea gravel and compacted to 95% compaction level. Backfill activities were performed under the oversight of Converse Consultants.

3.0 ANALYTICAL RESULTS

3.1 METHODOLOGY OF LABORATORY ANALYSIS

Soil samples were collected, maintained, prepared and analyzed according to Test Methods for Evaluating Solid Waste, (SW-846). The chemical analyses were performed by Del Mar Analytical, a laboratory certified by the State of California Department of Health Services.

All soil samples were analyzed for gasoline related compounds, as required by the LAFD tank removal permit. Analysis included Total Petroleum Hydrocarbons as gasoline (TPH-G) using EPA Method 8015M; benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) using EPA Method 8021B, and for Total Lead by EPA Method 7420. Refer to Appendix 4 for laboratory and quality assurance/quality control (QA/QC) reports and chain-of-custody records.

3.2 RESULTS AND INTERPRETATION OF LABORATORY ANALYSIS

All collected soil samples were analyzed for gasoline related compounds, in accordance with the LAFD requirements. The analytical results are summarized in Table 1.

Southern Tank Section: One soil sample, from a depth of about 11 feet below grade, was collected from the southern section of the split UST. No TPH-G, benzene, ethylbenzene or MTBE were measured in this sample. Xylenes at 0.015 mg/Kg and toluene at 0.0087 mg/Kg were detected.

Northern Tank Section: One soil sample, from a depth of about 11 feet below grade, was collected from the northern section of the split UST. No TPH-G, benzene, toluene, ethylbenzene or xylenes were measured in this sample. MTBE was measured in this sample at 0.390 mg/Kg (concentration of MTBE measured by EPA Method 8260B).

Dispenser Area: One soil sample, from a depth of about 3 feet below grade, was collected under the removed dispenser. No benzene, toluene, ethylbenzene, xylenes or MTBE were measured in this sample. Only gasoline (TPH-G) at 1.7 mg/Kg was detected.

Total lead was measured in the collected soil samples between <5 and 7.3 mg/Kg. These levels are typical of naturally occurring lead concentrations in soils.

The Regional Water Quality Control Board, Los Angeles Region (RWQCB) has set cleanup guidelines for gasoline, as provided in the RWQCB Interim Site Assessment & Cleanup Guidebook, *May 1996* (referred to as 1996 RWQCB Guidelines). The groundwater in the vicinity of the subject site has been reported at approximately 100 feet below ground surface. For this case, the RWQCB clean-up guideline for gasoline is at 500 mg/Kg.

Assuming on a conservative basis that the subsurface material is sand, the clean-up guideline for toluene is 2 mg/Kg and for xylenes is 20 mg/Kg. The detected levels of gasoline, toluene and xylenes were below these clean-up guidelines.

The primary Maximum Contaminant Level for MTBE in drinking water is 0.013 mg/L. There is no soil clean-up guideline for MTBE. Based on the fact that MTBE was measured in only one soil sample out of three collected samples, and the distance to groundwater (about 100 feet below grade, or about 90 feet below the collected soil sample with MTBE detection), it appears unlikely that the groundwater would be affected from former operation of this removed UST.

4.0 GEOLOGY AND HYDROGEOLOGY

4.1 GEOLOGY AND HYDROGEOLOGY

The subject property is located at an elevation of approximately 30 feet above mean sea level (msl). Surface topography in the area is almost flat and slopes gently to the east. The main physiographic feature associated with this area is the Torrance anticline. The Torrance anticline, located in the southerly part of the Hawthorne-Long Beach depression, is a gentle fold which trends southeast from Redondo Beach and contains the Torrance oil field.

The subject site overlies alluvial sediments consisting of brown to gray, fine to medium grained silty sand. According to Bulletin No. 104, Planed Utilization of the Groundwater Basins of the Coastal Plain of Los Angeles County, May 1990, soils beneath the site are made up of Recent alluvium which the Gaspur Aquifer is contained within. In addition, the Lakewood formation underlies the Recent alluvium. The Lakewood formation includes the Exposition aquifer and the Gage aquifer, which represent shallower groundwater beneath the subject site.

Hydrogeologically, the property is located in the West Coast Basin. The Los Angeles County, Department of Public Works, Hydrologic Records Division, was contacted regarding groundwater depth in the vicinity of the site. The closest well currently in the database (well No. 794B) is located approximately 2000 feet to the west-northwest of the site. It was last gauged on April 22, 1999, at which time groundwater was measured at a depth of 102.7 feet below ground surface. According to the LACDPW Coastal Plain Aquifer Groundwater Contour Map for Fall 1995, in this area, the groundwater flows to the west.

No groundwater was encountered during tank removal activities.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Boeing Realty engaged the services of American Integrated Services (AIS) for the closure of one Underground Storage Tank (UST) located at 19503 South Normandie Avenue in Los Angeles, California. Permit was obtained from the City of Los Angeles Fire Department (LAFD) for the removal of the UST. The UST consisted of one split, 5,000-gallon tank, containing gasoline. Associated piping and dispenser were also removed.

Soil samples were collected after removal of the USTs and dispenser. The purpose of the soil sampling was to determine whether contents previously stored in the UST had impacted the surrounding subsurface soil. The number of collected soil samples and the performed chemical analysis followed the guidelines set by the LAFD. A total of three soil samples were collected and analyzed, for Total Petroleum Hydrocarbons as gasoline (TPH-G) using EPA Method 8015M, benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8021B, and for Total Lead by EPA Method 7420.

Relatively low concentrations of toluene (0.087 mg/Kg) and xylenes (0.015 mg/Kg) were measured towards the southern section of the tank. Gasoline at 1.7 mg/Kg was measured under the dispenser. These levels are well below the clean-up guidelines provided by the RWQCB – Los Angeles Region.

MTBE was measured only in one soil sample (under the northern section of the tank) at 0.39 mg/Kg. There is no soil clean-up guideline for MTBE, however, the Maximum Contaminant Level for MTBE in drinking water has been set at 0.013 mg/L. Based on the fact that MTBE was measured in only one soil sample out of three collected samples, and the distance to groundwater (about 100 feet below grade, or about 90 feet below the collected soil sample with MTBE detection), it appears unlikely that the groundwater would be affected from former operation of this removed UST.

Based on the analytical results, no further action is needed. AIS requests that closure be granted for the removal of this 5,000-gallon UST.

6.0 LIMITATIONS

AIS has performed the activities cited herein in conformance with the scope-of-work prescribed by the client. AIS conducted the work in an objective and unbiased manner, and in accordance with generally accepted professional practice for this type of work. AIS believes the analysis to be accurate and relevant but cannot accept responsibility for the accuracy or completeness of available documentation or possible withholding of information by the interviewees, agencies, or other private parties. No other warranty, express or implied, is made. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

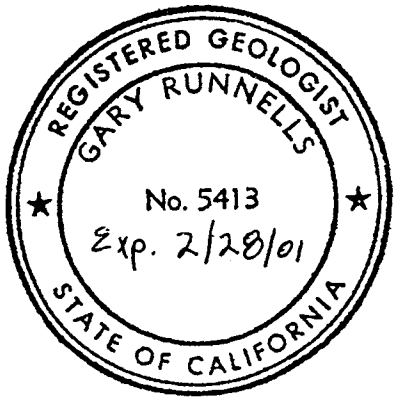
The findings from the soil investigation are based primarily upon analytical results provided by an independent laboratory. Interpretations of the subsurface conditions at the site, for the purpose of this investigation, are made from a limited number of available data points (example: soil samples) and subsurface conditions may be different in other locations.

AIS appreciates the opportunity to provide environmental management services for Boeing Realty – McDonnell Douglas. Should you have any questions or require additional information, please feel free to call us at (323) 249-8442.

Sincerely,
American Integrated Services

Gary Runnells, RG, REA
Vice President

John Pings
Operations Manager



APPENDIX 1

FIGURES AND TABLES

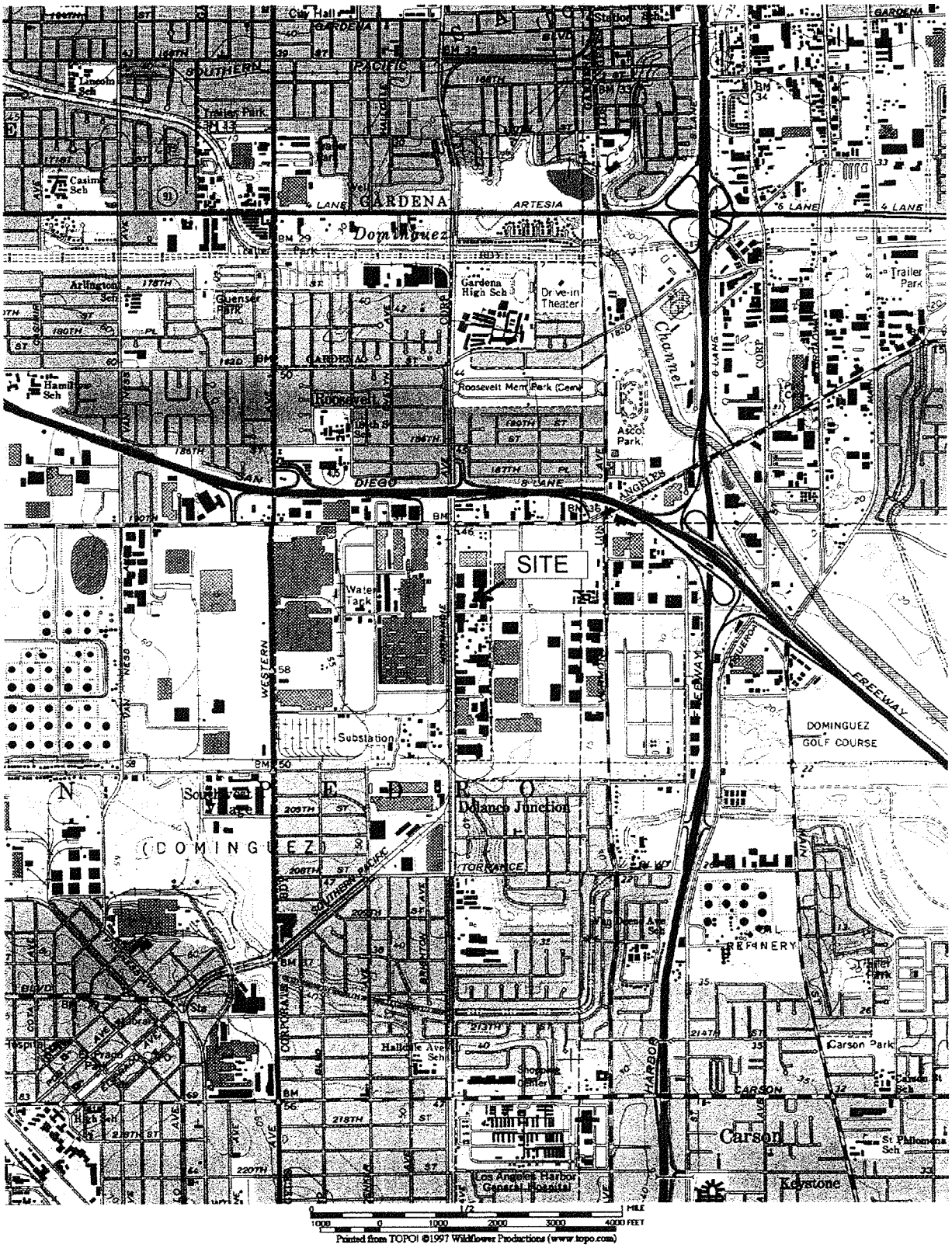


Figure 1 - Site Location Map
Boeing Realty - McDonnell Douglas
19503 South Normandie Avenue
Los Angeles, California

N

Source:
USGS Topo Map
Torrance Quadrangle

American Integrated Services, Inc.
P.O. Box 92316, Long Beach, CA 90809-2316 (323) 249-8442 FAX (323) 357-1909

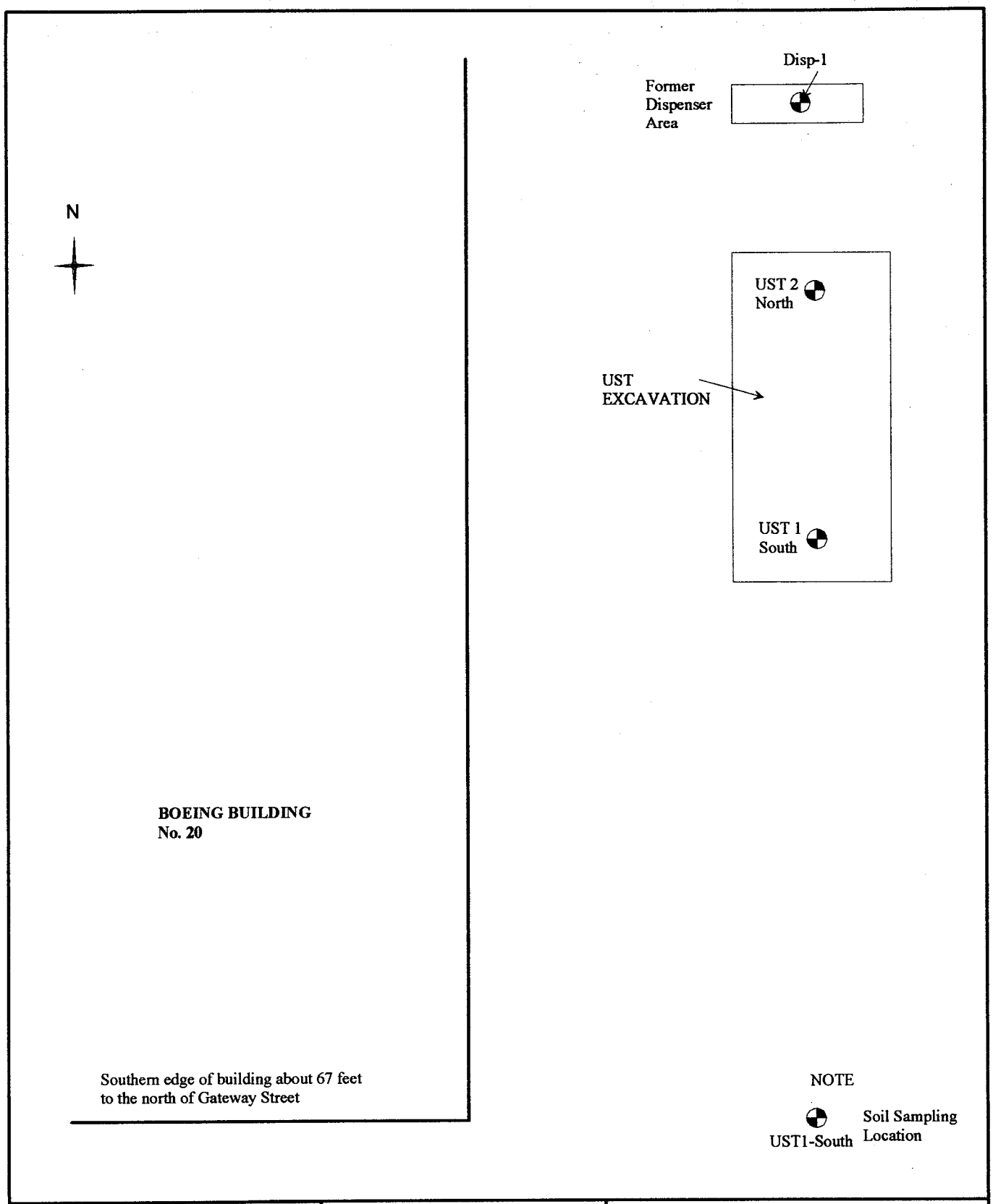


Figure 2 - Site Map
UST Removal - Boeing Realty
19503 S. Normandie Avenue
Los Angeles, California

American Integrated Services, Inc.
P.O. Box 92316, Long Beach, CA 90809-2316 (323) 249-8442 FAX (323) 357-1909

TABLE 1: SOIL ANALYTICAL RESULTS – UST CLOSURE
Boeing Realty – McDonnell Douglas – 19503 South Normandie Avenue, Los Angeles, California

Sample No.	UST 1-South	UST 2- North	Disp-1
Sampling Date	8/29/00	8/29/00	8/29/00
Depth (feet below grade)	11	11	3
TPH-G (mg/Kg)	<1.0	<1.0	1.7
Benzene (mg/Kg)	<0.0050	<0.0050	<0.0050
Toluene (mg/Kg)	0.0087	<0.0050	<0.0050
Ethyl-benzene (mg/Kg)	<0.005	<0.0050	<0.0050
Xylenes (mg/Kg)	0.015	<0.015	<0.015
MTBE (mg/Kg)	<0.035	0.72	<0.035
Confirmation MTBE (mg/Kg)	NA	0.390	NA
Lead (mg/Kg)	<5.0	7.3	6.8

NOTE:

Total Petroleum Hydrocarbons as Gasoline (TPH-G) analysis performed by EPA Method 8015 Modified, Gasoline Range

Benzene, Toluene, Ethylbenzene, Xylenes and MTBE analysis performed by EPA Method 8021

Confirmation MTBE analyzed by EPA Method 8260B

Total Lead analyzed by EPA Method 7420

NA: Not Analyzed

MTBE: methyl tertiary butyl ether

APPENDIX 2

PERMIT

LOS ANGELES CITY FIRE DEPARTMENT
Division 5 Permit - Atmospheric Underground Tank

Fire Dept Use Only

Data Managment Unit:	LAFD Unified Program Facility ID: ~~001881-T~~ 30279-3	Permit No.	Fire Station #:	Date Granted:
Tanks are registered and fees paid to date. S. Myers *Signature*		9316	79	8/21/00 (work must commence within 6 mo.)
	Enforcement Inspector: Stivason	Permit Type: Abandonment by Removal		Expiration Date: 8/21/01 (work must be completed)

LOCATION INFORMATION

Doing Business As (DBA): Boeing Realty - McDonnell Douglas

EPA ID No. (not required for Installation or Monitoring): CAC001487880

Address: Number	Dir.	Street Name	St., Ave., Blvd., etc.	Phone No.:
19503	S	Normandie	Ave.	562/627-4900

City: Los Angeles **State:** CA **Zip:** 90501

PROPERTY OWNER

Name: Boeing Realty - McDonnell Douglas **Phone No.:** 562/627-4900

Address: 3760 Kilroy Airport Way, Suite 500

City: Long Beach **State:** CA **Zip:** 90806

Print Name: John Marasco **Signature:** E. Wardle for J. Marasco Boeing Realty

CONTRACTOR INFORMATION

Company Name: American Integrated Services **Phone No.:** 323-249-8442

Address: 2680 SEMINOLE AVENUE

City: LYNWOOD **State:** CA **Zip:** 90262

City Business Number: 0943223 - 20 **State Contractors Number:** 757133 A-Haz **Work Comp Number:** 1535905-01

Print Name: Ed Wardle **Signature:** E. Wardle **Title:** Project Manager

ITEM	QTY.	NOTES:
☐ UST(s) Installation		
☒ UST(s) Abandonment by Removal	1	1 - 3,000 gallon split
☐ UST(s) Abandonment-In-Place		
☐ UST(s) Tank Entry / Lining / Repair		
☐ UST(s) Add to / Alter: Monitor / Piping / Disp.		
☐ Site Assessment		
☐ Emergency Plan Check / Site Assessment		

[illegible] these plans and or [illegible] not exempt them [illegible] with [illegible] ter [illegible] of the Municipal Code and [illegible] ws and regulations.

APPROVED 9316 8-21-00
LOS ANGELES FIRE DEPARTMENT
BUREAU OF FIRE PREVENTION

Inspector Name: **Jones** Inspector Signature:

BOE-C6-0221043

LA CITY FIRE DEPT. UNDERGROUND TANK ABANDONMENT REPORT

FACILITY ADDRESS: 19503 S. NORMANDIE
PERMIT # 9316 DATE 8-29-00

FULL REPORT DUE IN 30 DAYS CONSISTING OF THE FOLLOWING:
A. SOIL ANALYSIS, FROM ALL SAMPLES TAKEN ON THE ABOVE DATE.
B. PLOT PLAN, CLEARLY ILLUSTRATING THE LOCATION SOIL SAMPLES WERE TAKEN FROM.
C. CHAIN OF CUSTODY.
D. UNIFORM MANIFEST FOR SOIL REMOVED FROM SITE.
E. CERTIFICATE OF DISPOSAL FOR TANKS AND PIPING.
F. MARINE CHEMIST TANK CERT, RINSE MANIFEST ANY PAPER WORK PERTAINING TO THIS ABANDONMENT SITE.
G. ALL REPORTS IN DUPLICATE, NO COMPOSITES. RESULTS IN PARTS PER MILLION, ALL SAMPLES TO BE TESTED FOR BTXE AND MTBE.

GAS	DIESEL	WASTE OIL/OIL
8015 M	8015 M	418.1
8020 BTXE-MTBE	8020 BTXE-MTBE	8020 BTXE-MTBE
7420 TOTAL LEAD	7420 TOTAL LEAD	7420 TOTAL LEAD

PRODUCT	# OF SAMPLES
TANK 1 GAS	2
TANK 2	
TANK 3	
TANK 4	
TANK 5	
TANK 6	
TANK 7	

DISPENSER PITS	1
PIPE TRENCHES	
SOIL PILES	
BACKGROUND LEAD	
WATER SAMPLE	
TOTAL SAMPLES	3

MAIL TO INSPECTOR LISTED BELOW WITHIN 30 DAYS. IF SAMPLES EXCEED NON-DETECTION LEVELS INCLUDE A STATE UNAUTHORIZED RELEASE FORM, OR YOUR REPORT WILL NOT BE PROCESSED.

DEAN J. STIVASON
FIRE INSPECTOR
LOS ANGELES FIRE DEPARTMENT
ENVIRONMENTAL UNIT

(310) 732-4580
(213) 847-0600
FAX: (310) 732-4579
http://www.ci.la.ca.us/dept/LAFD

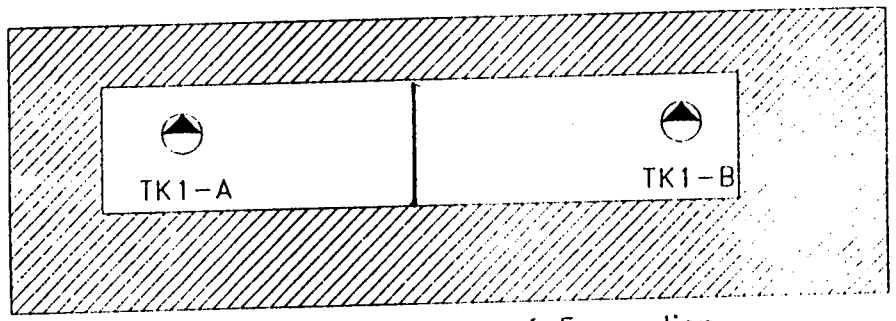
BUREAU OF FIRE PREVENTION
200 N. MAIN STREET
ROOM 930, CHE
LOS ANGELES, CALIFORNIA 90012

Figure 1: Site Plan

Boeing Torrance
19503 South Normandie
~~Torrance~~, California
LA

Building 20

Dispenser Island



Area of Excavation

8-2-96

The approval of these plans ... nor ... pertinent ... Code and other ...

APPROVED
93/C
LOS ANGELES FIRE DEPARTMENT
BUREAU OF FIRE PREVENTION

D011NITR

N

Field Personnel	T. Tuttle	
Drawn By	K. Wojak	
Reviewed By	E. Anchetta	
Approved By	T. Tuttle	

SCALE IN FEET

0 5 10 15 20

Contractor Lic. #757133

American Integrated Services, Inc.

BOE-C6-0221045

CITY OF LOS ANGELES

INVOICE

Los Angeles City Fire Department Unified Program
Underground Storage Tank Fees for Service

Date:	8/21/2000
Invoice No.:	3316
Permit No.:	9316
Permit Type:	Abandonment by Removal

Applicant/Contractor Information:

Name of Applicant: Ed Wardle

Representing: (Company Name/Self) American Integrated Services

Applicant Phone No.: 323-249-8442

Inspection District: 423

Plan Check Inspector: Jones

Enforcement Inspector: Stivason

Site Information: LAFD Facility ID No.: ~~001381-1~~ 30291-3

Business Name (DBA): Boeing Realty - McDonnell Douglas

Site Address: 19503 S Normandie Ave.

Los Angeles (City) CA (State) 90501 (Zip)

Type of Permit Requiring Plan Check and/or Inspection (Check One)

			Minimum Fee:	Fee:
☐	Installation		*$327.00*	
☒	Abandonment by Removal	Number of Tanks: 1	*$218.00 plus $109.00 for each additional tank*	$218.00
☐	Abandonment-in-Place		*$327.00*	
☐	Add to/Alter: Monitoring, Piping, Dispenser		*$327.00*	
☐	Tank Entry, Lining, Repair		*$327.00*	
☐	Site Assessment		*$109.00*	
☐	Emergency Plan Check / Site Assessment		*$436.00*	

Total Due: $218.00

Plan Check and Inspection services are calculated on a fee for service basis. Each type of transaction has been assigned a charge based on the estimated time required for the service.

If Plan Check/Inspection services exceed the assigned hours, additional charges will accrue in six minute increments. These additional charges will be billed to the Responsible Party.

CC# 10386

For Cash Payments:
BILLING & ACCOUNTS RECEIVABLE
10TH FLOOR, RM. NO. 1070

Pd 8-21-00

AMOUNT PAID $ 218.00

SIGNATURE: S. Myers

IHMS-87 HAZARDOUS MATERIALS SYSTEM 08/21/00
CUPA INVOICE FEE SUMMARY 10:42:53

ACTION: _ (I=INQUIRY, N=NEXT INVOICE)
BUS TAX REG/TEMP NO: T0010114-14 BOEING
INVOICE NBR: 2000/01-035861-9 INVOICE DATE: 07 28 2000 DUE DATE: 08 27 2000
FAC ID: 030279-3 H/W ID: EPA ID: DLQ DATE: 09 26 2000

CITY OF LOS ANGELES CHARGES:		
UFC HMPP HMRRP		695.00
UST 1 TANKS X 351.00		351.00
CALARP RISK FACTOR		
CALARP ADMINISTRATION FEE		
COUNTY OF LA CHARGES:		
HAZWASTE		
TIERED PERMIT		
STATE OF CALIFORNIA CHARGES:		
UST TANK SERVICE CHARGE 1 TANKS X 8.00		8.00
CALARP SERVICE CHARGE		10.00
GENERAL STATE SURCHARGE		
PENALTY APPLICABLE AFTER DELINQUENCY DATE (50%)		
TOTAL DUE:		1,064.00

PF1=BUS INFO PF4=DIV8 PERMIT PF11=BUS MENU
I02 INQUIRY SUCCESSFUL

2000/01 Inv. 1,064.00

PAID
8-21-00

Div 5. 218.00

1,282.00

Ck# 10386.

S. [signature]

APPENDIX 3

TANK REMOVAL DOCUMENTATION

AIS
30376

CERTIFICATE OF DESTRUCTION

State Iron and Metals
13780 E. Imperial Hwy.,
Santa Fe Springs, CA 90670
Phone#(562)404-8683

COMPANY NAME: Boeing

ADDRESS: 19503 S. Normandie

Los Angeles

DESCRIPTION: 1- 5,000 gal. Steel Tank

Underground Storage Tank(s)

Have Been Scrapped, Crushed and Destroyed At

State Iron and Metals, Santa Fe Springs, CA

On: 8-30-00

Signature:

Title: Manager

Date: 9-01-00

CA ? ? ? ?

Thomas D. Beck & Assoc., Inc.
dba HARBOR TESTING LABORATORY
24 HOUR PHONE: (562) 492-9646

MARINE CHEMIST CERTIFICATE

Serial # 10355

AMERICAN INTEGRATED	BOEING REALTY	29 AUG 00
Survey Requested By	Vessel Owner or Agent	Date
UNDERGROUND TK	U.S.T.	19503 S. NORMANDIE
Vessel	Type of Vessel	Specific Location of Vessel
GASOLINE	LEL, O2, V/ppm	1300
Last Cargo	Tests Performed	Time Survey Completed

(LOCATED EAST SIDE BLDG 20)

2 COMPARTMENT DOUBLE WALL FIBRESTEEL CONSTRUCTED UNDERGROUND STORAGE TANK MARKED WITH RED SPRAY PAINT:

10355

BOTH COMPARTMENTS TESTED: 0% LEL, 20.8% OXYGEN

NOT SAFE FOR WORKERS - NOT SAFE FOR HOT WORK.

TANK HAS BEEN CLEANED. SAFE TO COLD CUT TANK USING HYDRAULIC/PNEUMATIC SHEAR.

MSA MICROMAX S/N 3236 CALIBRATED @ 0530 HRS 29 AUG 00

In the event of any physical or atmospheric adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast of manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment of space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment of space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are specified.

SAFE FOR HOT WORK: Means that in any compartment designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

CHEMIST'S ENDORSEMENT: This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

Signed [signature] AIS 8-29-2000

Name Company Date

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed [signature] 584

Marine Chemist Certificate No.

Please print or type. Form designed for use on elite (12-pitch) typewriter.

Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC001487560 Manifest Document No. 1 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
MC DONNELL DOUGLAS
1414 190TH ST WEST
L.A

4. Generator's Phone ( ) 562 627-4700

5. Transporter 1 Company Name: NIETO & SONS TRUCKING INC
6. US EPA ID Number: CA T 0 8 0 0 1 6 1 1 6

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
DEMENNO KERDOON
2000 N ALAMEDA ST
COMPTON CA 90222
10. US EPA ID Number: CA T 0 8 0 0 1 3 3 5 2

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. WASTE NON RCRA HAZARDOUS LIQUID	001	T	1 X Y 60	G
b.				
c.				
d.				

15. Special Handling Instructions and Additional Information
NO SHIPPING
24 HR # 714 690-6855
LEVEL D PROTECTIVE CLOTHING

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: X John MARASCO | Signature | Month 08 | Day 27 | Year 10

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jos Hunt | Signature | Month 08 | Day 29 | Year 10

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month | Day | Year

DO NOT WRITE BELOW THIS LINE.

GENERATOR

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

Yellow: GENERATOR RETAINS

DTSC 8022A (1/95)
EPA 8700—22

FROM : PHONE NO. : Aug. 24 1999 07:24AM P1

BOE-C6-0221051

CONVERSE CONSULTANTS

☒ Monrovia TEL (626) 930-1200
FAX (626) 930-1212
☐ Redlands TEL (909) 796-0544
FAX (909) 796-7675
☐ Costa Mesa TEL (714) 444-9660
FAX (714) 444-9640

DAILY TIME SHEET AND FIELD REPORT

NOTIFICATION OF HOURS / SERVICES DURING CONSTRUCTION

Services	Straight	Overtime	Services	Straight	Overtime
Travel Mileage: N/A (Soils Only)	1		Density Testing		
Grading Observation & Testing			Observation of ~~Foundation~~ Excavation	2	
Concrete			Masonry		
Welding			Erection and Bolting		
NDT Type: UT - MT - DP			TOTAL TIME CHARGED TO PROJECT	3	

Project Name: BOEING/190TH ST Project No.: _____

Client: AMERICAN INTEGRATED Date: WED. 8-30-2000

Remarks OBSERVATION Report No. _____

ARRIVED ON SITE AT 10:45 AM AND MET ED WARDLE AND MIKE WITH AMERICAN INTEGRATED. THEY SHOWED ME THE 25'L x 12'W x 9'D EXCAVATION THAT ALREADY HAD DFA ROCK IN THE EXCAVATION.

I APPROVED THE BOTTOM PRIOR TO THE BACKFILL OF IMPORTED SOIL THAT WILL ARRIVE LATER THIS AFTERNOON.

I WILL RETURN TOMORROW 8-31-2000 AS PER MIKE W/ AMERICAN TO SAMPLE THE IMPORT AND CONDUCT 1 DENSITY TEST ON THE SOIL BACKFILL.

THE EXCAVATION HAS BEEN APPROVED FOR THE REMAINING FILL. LEFT THE SITE @ 12:30PM.

GEORGE A. SCHUBERT, JR.

George A. Schubert, Jr.
Field Representative for Converse Consultants

Acknowledgment/Verified By

of: _____

White - Project Manager / Yellow - Billing / Pink - Field File / Goldenrod - Client Rep.

APPENDIX 4

LABORATORY AND QUALITY ASSURANCE/CONTROL (QA/QC) REPORTS AND CHAIN-OF-CUSTODY RECORDS

20030

Del Mar Analytical

...lton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley ... Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
16525 Sherman Way, Suite C-11, Van Nuys, CA 92406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

LABORATORY REPORT

Prepared For: American Integrated Services
2680 Seminole Ave.
Lynwood, CA 90809-2316

Attention: John Pings
Project: Boeing Torrance
20030

Sampled: 08/29/00
Received: 08/30/00
Reported: 09/15/00

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

CA ELAP Certificate #1197
AZ DHS License #AZ0428

Del Mar Analytical, Irvine
Jim Hatfield
Project Manager

Del Mar Analytical

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American Integrated Services
2680 Seminole Ave.
Lynwood, CA 90809-2316
Attention: John Pings

Client Project ID: Boeing Torrance
20030
Report Number: IJH1048

Sampled: 08/29/00
Received: 08/30/00

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: IJH1048-01 (20030 UST1-SOUTH - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	I0I0901	1.0	ND	1	9/9/00	9/9/00	QG
Benzene	EPA 8015B/8021	I0I0901	0.0050	ND	1	9/9/00	9/9/00	
Toluene	EPA 8015B/8021	I0I0901	0.0050	**0.0087**	1	9/9/00	9/9/00	
Ethylbenzene	EPA 8015B/8021	I0I0901	0.0050	ND	1	9/9/00	9/9/00	
Total Xylenes	EPA 8015B/8021	I0I0901	0.015	**0.015**	1	9/9/00	9/9/00	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	I0I0901	0.035	ND	1	9/9/00	9/9/00	
Surrogate: 4-BFB (PID) (70-125%)				*88.2 %*				
Surrogate: aaa-TFT (FID) (60-135%)				*83.2 %*				
Sample ID: IJH1048-02 (20030 UST2-NORTH - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	I0I0901	1.0	ND	1	9/9/00	9/9/00	QG
Benzene	EPA 8015B/8021	I0I0901	0.0050	ND	1	9/9/00	9/9/00	
Toluene	EPA 8015B/8021	I0I0901	0.0050	ND	1	9/9/00	9/9/00	
Ethylbenzene	EPA 8015B/8021	I0I0901	0.0050	ND	1	9/9/00	9/9/00	
Total Xylenes	EPA 8015B/8021	I0I0901	0.015	ND	1	9/9/00	9/9/00	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	I0I0901	0.035	**0.72**	1	9/9/00	9/9/00	
Surrogate: 4-BFB (PID) (70-125%)				*105 %*				
Surrogate: aaa-TFT (FID) (60-135%)				*101 %*				
Sample ID: IJH1048-03 (20030 DISP-1 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	I0I0901	1.0	**1.7**	1	9/9/00	9/9/00	QG
Benzene	EPA 8015B/8021	I0I0901	0.0050	ND	1	9/9/00	9/9/00	
Toluene	EPA 8015B/8021	I0I0901	0.0050	ND	1	9/9/00	9/9/00	
Ethylbenzene	EPA 8015B/8021	I0I0901	0.0050	ND	1	9/9/00	9/9/00	
Total Xylenes	EPA 8015B/8021	I0I0901	0.015	ND	1	9/9/00	9/9/00	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	I0I0901	0.035	ND	1	9/9/00	9/9/00	
Surrogate: 4-BFB (PID) (70-125%)				*104 %*				
Surrogate: aaa-TFT (FID) (60-135%)				*86.2 %*				

Del Mar Analytical, Irvine
Jim Hatfield
Project Manager

Del Mar Analytical

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American Integrated Services
2680 Seminole Ave.
Lynwood, CA 90809-2316
Attention: John Pings

Client Project ID: Boeing Torrance 20030
Report Number: IJH1048

Sampled: 08/29/00
Received: 08/30/00

MTBE (EPA 8260 MOD.)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: IJH1048-02 (20030 UST2-NORTH - Soil)								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	I0I1208	50	**390**	10	9/12/00	9/12/00	
Surrogate: Dibromofluoromethane (85-125%)				*88.2 %*				

Del Mar Analytical, Irvine
Jim Hatfield
Project Manager

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American Integrated Services
2680 Seminole Ave.
Lynwood, CA 90809-2316
Attention: John Pings

Client Project ID: Boeing Torrance 20030
Report Number: IJH1048

Sampled: 08/29/00
Received: 08/30/00

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: IJH1048-01 (20030 UST1-SOUTH - Soil)								
Lead	EPA 7420	C0I0504	5.0	ND	1	9/5/00	9/6/00	
Sample ID: IJH1048-02 (20030 UST2-NORTH - Soil)								
Lead	EPA 7420	C0I0504	5.0	**7.3**	1	9/5/00	9/6/00	
Sample ID: IJH1048-03 (20030 DISP-1 - Soil)								
Lead	EPA 7420	C0I0504	5.0	**6.8**	1	9/5/00	9/6/00	

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American Integrated Services
2680 Seminole Ave.
Lynwood, CA 90809-2316
Attention: John Pings

Client Project ID: Boeing Torrance
20030
Report Number: IJH1048

Sampled: 08/29/00
Received: 08/30/00

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I0I0901 Extracted: 09/09/00										
Blank Analyzed: 09/09/00 (I0I0901-BLK1)										
Volatile Fuel Hydrocarbons	ND	1.0	mg/kg							*QG*
Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	mg/kg							
Ethylbenzene	ND	0.0050	mg/kg							
Total Xylenes	ND	0.015	mg/kg							
Methyl-tert-butyl Ether (MTBE)	ND	0.035	mg/kg							
Surrogate: 4-BFB (PID)	*0.0527*		*mg/kg*	*0.0500*		*105*	*70-125*			
Surrogate: aaa-TFT (FID)	*0.0506*		*mg/kg*	*0.0500*		*101*	*60-135*			
LCS Analyzed: 09/09/00 (I0I0901-BS1)										
Volatile Fuel Hydrocarbons	1.22	1.0	mg/kg	1.10		111	70-125			*QG*
Benzene	0.0919	0.0050	mg/kg	0.100		91.9	80-120			
Toluene	0.0929	0.0050	mg/kg	0.100		92.9	80-120			
Ethylbenzene	0.0925	0.0050	mg/kg	0.100		92.5	85-120			
Total Xylenes	0.273	0.015	mg/kg	0.300		91.0	85-120			
Methyl-tert-butyl Ether (MTBE)	1.26	0.035	mg/kg	1.50		84.0	75-130			
Surrogate: 4-BFB (PID)	*0.0545*		*mg/kg*	*0.0500*		*109*	*70-125*			
Surrogate: aaa-TFT (FID)	*0.0528*		*mg/kg*	*0.0500*		*106*	*60-135*			
Matrix Spike Analyzed: 09/09/00 (I0I0901-MS1)					**Source: IJI0254-01**					
Volatile Fuel Hydrocarbons	1.08	1.0	mg/kg	1.10	ND	98.2	65-130			*QG*
Benzene	0.101	0.0050	mg/kg	0.100	ND	100	75-120			
Toluene	0.101	0.0050	mg/kg	0.100	ND	97.0	75-120			
Ethylbenzene	0.0987	0.0050	mg/kg	0.100	ND	97.7	80-125			
Total Xylenes	0.290	0.015	mg/kg	0.300	ND	94.9	80-120			
Methyl-tert-butyl Ether (MTBE)	1.46	0.035	mg/kg	1.50	ND	97.3	50-150			
Surrogate: 4-BFB (PID)	*0.0530*		*mg/kg*	*0.0500*		*106*	*70-125*			
Surrogate: aaa-TFT (FID)	*0.0487*		*mg/kg*	*0.0500*		*97.4*	*60-135*			

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Project Manager

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American Integrated Services
2680 Seminole Ave.
Lynwood, CA 90809-2316
Attention: John Pings

Client Project ID: Boeing Torrance
20030
Report Number: IJH1048

Sampled: 08/29/00
Received: 08/30/00

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I0I0901 Extracted: 09/09/00										
Matrix Spike Dup Analyzed: 09/09/00 (I0I0901-MSD1)					**Source: IJI0254-01**					
Volatile Fuel Hydrocarbons	1.06	1.0	mg/kg	1.10	ND	96.4	65-130	1.87	20	*QG*
Benzene	0.102	0.0050	mg/kg	0.100	ND	101	75-120	0.985	20	
Toluene	0.101	0.0050	mg/kg	0.100	ND	97.0	75-120	0	20	
Ethylbenzene	0.0967	0.0050	mg/kg	0.100	ND	95.7	80-125	2.05	20	
Total Xylenes	0.283	0.015	mg/kg	0.300	ND	92.6	80-120	2.44	20	
Methyl-tert-butyl Ether (MTBE)	1.46	0.035	mg/kg	1.50	ND	97.3	50-150	0	30	
Surrogate: 4-BFB (PID)	*0.0514*		*mg/kg*	*0.0500*		*103*	*70-125*			
Surrogate: aaa-TFT (FID)	*0.0494*		*mg/kg*	*0.0500*		*98.8*	*60-135*			

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American Integrated Services
2680 Seminole Ave.
Lynwood, CA 90809-2316
Attention: John Pings

Client Project ID: Boeing Torrance
20030
Report Number: IJH1048

Sampled: 08/29/00
Received: 08/30/00

METHOD BLANK/QC DATA

MTBE (EPA 8260 MOD.)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I0I1208 Extracted: 09/12/00										
Blank Analyzed: 09/12/00 (I0I1208-BLK1)										
Methyl-tert-butyl Ether (MTBE)	ND	5.0	ug/kg							
Surrogate: Dibromofluoromethane	*45.6*		*ug/kg*	*50.0*		*91.2*	*85-125*			
LCS Analyzed: 09/12/00 (I0I1208-BS1)										
Methyl-tert-butyl Ether (MTBE)	46.1	5.0	ug/kg	50.0		92.2	65-135			
Surrogate: Dibromofluoromethane	*45.7*		*ug/kg*	*50.0*		*91.4*	*85-125*			
Matrix Spike Analyzed: 09/12/00 (I0I1208-MS1)					**Source: IJH1082-16**					
Methyl-tert-butyl Ether (MTBE)	47.7	5.0	ug/kg	50.0	ND	92.4	65-155			
Surrogate: Dibromofluoromethane	*45.3*		*ug/kg*	*50.0*		*90.6*	*85-125*			
Matrix Spike Dup Analyzed: 09/12/00 (I0I1208-MSD1)					**Source: IJH1082-16**					
Methyl-tert-butyl Ether (MTBE)	48.9	5.0	ug/kg	50.0	ND	94.8	65-155	2.48	25	
Surrogate: Dibromofluoromethane	*43.7*		*ug/kg*	*50.0*		*87.4*	*85-125*			

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Project Manager

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Attention: John Pings

Client Project ID: Boeing Torrance
20030
Report Number: IJH1048

Sampled: 08/29/00
Received: 08/30/00

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C0I0504 Extracted: 09/05/00										
Blank Analyzed: 09/06/00 (C0I0504-BLK1)										
Lead	ND	5.0	mg/kg							
LCS Analyzed: 09/06/00 (C0I0504-BS1)										
Lead	18.0	5.0	mg/kg	20.0		90.0	85-120			
Matrix Spike Analyzed: 09/06/00 (C0I0504-MS1)					**Source: IJH1048-01**					
Lead	23.0	5.0	mg/kg	20.0	ND	97.5	70-115			
Matrix Spike Dup Analyzed: 09/06/00 (C0I0504-MSD1)					**Source: IJH1048-01**					
Lead	22.9	5.0	mg/kg	20.0	ND	97.0	70-115	0.436	20	

Del Mar Analytical, Irvine
Jim Hatfield
Project Manager

Del Mar Analytical

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

American Integrated Services 2680 Seminole Ave. Lynwood, CA 90809-2316 Attention: John Pings	Client Project ID: Boeing Torrance 20030 Report Number: IJH1048	Sampled: 08/29/00 Received: 08/30/00

DATA QUALIFIERS AND DEFINITIONS

QG Carbon range C6-C12 quantitated against a gasoline standard.

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

NR Not reported.

RPD Relative Percent Difference

Del Mar Analytical, Irvine
Jim Hatfield
Project Manager

Del Mar Analytical
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3484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (619) 505-9596 FAX (619) 505-9689

008856

CHAIN OF CUSTODY FORM

Page 1 of 1

Client Name/Address: American Integrated Services P.O Box 932316, Long Beach, CA 90809

Project/PO Number: 20030 Boeing Torrance

Project Manager: John Pings

Phone Number: 323.249.8442

Sampler: JM

Fax Number: 323.357.1409

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservatives	8015mod GRO	8021B/8TBE/MTBE	7420 Pb total							Special Instructions
20030 UST1-South	Soil	Jar	1	8/29/00 1230	Chill	X	X	X							IJH1048
20030 UST2-North	Soil	Jar	1	8/29/00 1225	chill	X	X	X							Report MTBE ASAP for 8260 confirmation
20030 Disp-1	Soil	Jar	1	8/24/00 1320	chill	X	X	X							

Relinquished By: JM Date /Time: 8/30/00 1620

Received by: [signature] Date /Time: 8/30/00 1620

Relinquished By: [signature] Date /Time: 8/30/00 1715

Received by: Date /Time:

Relinquished By: Date /Time:

Received in Lab by: [signature] Date /Time: 8-30-00 1715

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days X
48 hours ____ normal ____

Sample Integrity: (Check)
intact X on ice X 5°C

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

COC-GB

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